



Designation: B 464 – 05

Standard Specification for Welded UNS N08020, N08024, and N08026 Alloy Pipe¹

This standard is issued under the fixed designation B 464; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This specification² covers welded UNS N08020, N08024, and N08026 alloy pipe for general corrosion-resisting and low- or high-temperature service.

1.2 The pipe covered is nominal pipe sizes up to and including NPS 6, with the nominal wall thicknesses given as Schedules 5S, 10S, and 40S and nominal pipe sizes up to and including NPS 2, also including Schedule 80S. Table 2 of Specification B 775 is based on Table A1 of ANSI B36.19 and gives the nominal dimensions of these sizes. Table 3 of Specification B 775 lists the dimensional requirements of these sizes. Pipe having other dimensions may be furnished provided such pipe complies with all other requirements of this specification.

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to become familiar with all hazards including those identified in the appropriate Material Safety Data Sheet (MSDS) for this product/material as provided by the manufacturer, to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:³

A 262 Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels

B 775 Specification for General Requirements for Nickel and Nickel-Alloy Welded Pipe

B 899 Terminology Relating to Non-ferrous Metals and Alloys

2.2 ANSI Standard:

B36.19 Stainless Steel Pipe⁴

3. Terminology

3.1 Definitions:

3.1.1 Definitions for terms defined in Terminology B 899 shall apply unless otherwise defined by the requirements of this document.

4. General Requirement

4.1 Material furnished in accordance with this specification shall conform to the applicable requirements of the current edition of Specification B 775 unless otherwise provided herein.

5. Ordering Information

5.1 It is the responsibility of the purchaser to specify all requirements that are necessary for material ordered under this specification. Examples of such requirements include, but are not limited to, the following:

5.1.1 Quantity (feet or number of lengths),

5.1.2 UNS number,

5.1.3 Size (nominal pipe size and schedule),

5.1.4 Length (random or specific),

5.1.5 ASTM designation, B6dacd/astm-b464-05

5.1.6 *Product Analysis*—State if required,

5.1.7 *Certification*—State if a certification or a report of test results is required,

5.1.8 *Purchaser Inspection*—State which tests or inspections are to be witnessed, if any, and

5.1.9 Supplementary requirements, if any.

6. Materials and Manufacture

6.1 The pipe shall be made from flat-rolled stock by an automatic welding process with no addition of filler metal.

6.2 *Heat Treatment*—Pipe of UNS N08020 alloy shall be furnished in the stabilized-annealed condition. Pipe of UNS N08024 alloy shall be furnished in the annealed condition. Pipe of UNS N08026 alloy shall be furnished in the solution-annealed condition.

NOTE 1—The recommended annealing temperatures are 1800 to

¹ This specification is under the jurisdiction of ASTM Committee B02 on Nonferrous Metals and Alloys and is the direct responsibility of Subcommittee B02.07 on Refined Nickel and Cobalt and Their Alloys.

Current edition approved Nov. 1, 2005. Published November 2005. Originally approved in 1967. Last previous edition approved in 2004 as B 464 – 04.

² For ASME Boiler and Pressure Vessel Code applications, see related Specification SB-464 in Section II of that code.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

*A Summary of Changes section appears at the end of this standard.